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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/579,698	03/19/2007	Donald Stuart Miller	1679.024 (TMG/ss/P71496us	9584	
23405 7590 01/07/2008 HESLIN ROTHENBERG FARLEY & MESTTI PC 5 COLUMBIA CIRCLE			EXAM	EXAMINER	
			NGUYEN, DUNG V		
ALBANY, NY	7 12203		ART UNIT	PAPER NUMBER	
				•	
			MAIL DATE	DELIVERY MODE	
			01/07/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/579,698 MILLER, DONALD STUART Office Action Summary Examiner Art Unit Dung Van Nguven -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-5 and 8-23 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10)⊠ The drawing(s) filed on 19 May 2006 is/are: a)⊠ accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 10/1/2007.

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date. ______.

6) Other:

Notice of Informal Patent Application

Application/Control Number: 10/579,698 Page 2

Art Unit: 3723

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- Claims 8, 9 and 11-23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Regarding claim 11, the word "means" is used in an attempt to use a "means" clause to recite a claim element as a means for performing a specified function.
 However, since no function word preceding "means," it is impossible to determine the equivalents of the element, as required by 35 U.S.C. 112, sixth paragraph. See Ex parte Klumb, 159 USPQ 694 (Bd. App. 1967).
- 4. Regarding claims 8, 9 and 15-22, the word "means" is preceded by the word(s) "orifice", "nozzle", "chamber" in an attempt to use a "means" clause to recite a claim element as a means for performing a specified function. However, since no function is specified by the word(s) preceding "means," it is impossible to determine the equivalents of the element, as required by 35 U.S.C. 112, sixth paragraph. See Ex parte Klumb. 159 USPQ 694 (Bd. App. 1967).

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Page 3

Application/Control Number: 10/579,698

Art Unit: 3723

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

6. Claims 1-5 and 8-23, as well as understood, are rejected under 35 U.S.C. 102(b) as being anticipated by Bingham (USPN 5,456,629). Bingham discloses a method for generating a high-velocity cutting jet 22 comprising the steps of forming a high-velocity jet of liquid 22, forming a suspension of an abrasive material 24 in a carrier condensable gas, entraining the suspension of abrasive material 24 into the liquid jet to produce a jet of mixture comprising abrasive material 24 and liquid and an apparatus 10 for generating a high-velocity cutting jet 22 comprising a pump 64 to form a high-velocity jet of liquid, an assembly 12 to form suspension of an abrasive material 24 in a carrier gas in form of vapor and to entrain the suspension into the jet of liquid to produce jet of mixture comprising abrasive material 24 and liquid 20, the assembly 12 having an elongate bore 77, (note Fig. 1-5, col. 3, lines 41-56, col. 4, lines 23-64, col. 7, line 23 to col. 8, line 59). Material used in an apparatus does not limit apparatus claim. See

Allowable Subject Matter

7. Claims 6 and 7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Yie, Chalmers and Bingham et al are cited to show related inventions. Application/Control Number: 10/579,698 Page 4

Art Unit: 3723

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dung Van Nguyen whose telephone number is 571-272-

4490. The examiner can normally be reached on PHP Program.

10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Joseph J. Hail can be reached on 571-272-4485. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

11. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dung Van Nguyen/

Primary Examiner, Art Unit 3723

January 4, 2008